EXHIBIT 2

Redacted Version of Document Sought to be Sealed

Page 1

IN THE UNITED STATES DISTRICT COURT FOR THE NORTHERN DISTRICT OF CALIFORNIA SAN JOSE DIVISION

CHASOM BROWN, WILLIAM : Case No.

BYATT, JEREMY DAVIS, :
CHRISTOPHER CASTILLO : 5:20-cv-03664and MONIQUE TRUJILLO, : LHK

individually and

on behalf of all other :

similarly situated, : CONFIDENTIAL

V.

Plaintiffs, :

GOOGLE, LLC,

Defendant. :

Wednesday, June 16, 2021

Videotaped 30(b)(6) deposition of GLENN BERNTSON held pursuant to notice, beginning at 10:27 AM, on the above date, and recorded stenographically by Constance S. Kent, a Certified Court Reporter, Registered Professional Reporter and Notary Public.

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1 A P P E A R A N C E S: 2 BOIES SCHILLER FLEXNER LLP BY: MARK C MAO, ESQ 3 BEKO REBLITZ-RICHARDSON, ESQ 44 Montgomery Street, 41st Floor San Francisco, California 94104 (415) 293-6800 5 mmao@bsfllp com brichardson@bsfllp com 6 Attorneys for Plaintiffs 7 BOIES SCHILLER FLEXNER LLP 8 BY: ROSSANA BAEZA, ESQ (pro hac vice) 9 100 SE 2nd Street, 28th Floor Miami, Florida 33131 10 (305) 539-8400 rbaeza@bsfllp com 11 Attorney for Plaintiffs 12 MORGAN & MORGAN 13 BY: RYAN McGEE, ESQ 201 N Franklin Street, 7th Floor 14 Tampa, Florida 33602 (813) 223-5505 15 rmegee@forthepeople com Attorney for the Plaintiff 16 17 SUSMAN GODFREY L L P BY: ALEXANDER FRAWLEY, ESQ 1900 Avenue of the Stars, Suite 1400 Los Angeles, California 90067 (310) 789-3100 afrawley@susmangodfrey com Attorneys for Plaintiffs 21	1 APPEARANCES, continued 2 QUINN EMANUEL URQUHART & SULLIVAN, LLP 3 BY: STEPHEN BROOME, ESQUIRE JOSEF ANSORGE, ESQUIRE 4 1300 I Street, NW, Suite 900 Washington, D.C. 20005 5 (202) 538.8000 stephenbroome@quinnemanuel.com 6 josefansorge@quinnemanuel.com Counsel for Defendants 7 ALSO PRESENT: 8 Matthew Gubiotti, Esquire 9 In-house counsel for Google 10 Jay Bhatia 11 Chris Thompson, 233 Analytics, LLC 12 Adam Depew, Video Specialist 13 Noah Fox, Trial Technician 14 15 16 17 18 19 20 21 22 23
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1	1 NO DESCRIPTION PAGE 2 Exhibit 6 Highly Confidential- 2222 Document entitled 3 Biscotti Identifiers, Bates GOOG-BRWN-00078361 4 through 78363 5 Exhibit 7 Highly Confidential- Document entitled



Page 198 Page 199 1 measurement; that is, if at some point a 1 A. Google has a set of, as --2 2 Biscotti is sent in that we don't have as you noted, policies that are meant to 3 3 the Gaia ID, we're still able to prevent reidentifiability, prevent 4 4 attribute, for example, that somebody joining of sort of sensitive IDs in terms 5 5 purchased something in relation to an ad of, say, signed in and signed out. So 6 6 that was shown. the vast majority of the way all of our 7 7 So and my systems work, we maintain a very strict 8 8 understanding of it is specifically Gaiaseparation. 9 9 keyed sets of IDs that are used to The exception in this 10 support inference about conversions cross 10 particular case is because conversions device. 11 11 are always recorded in aggregate and 12 12 they're not associated to an individual O. So let's explore that for a 13 little bit. Generally as a use case, are 13 user, we're not leaking any data about an 14 Google products allowed to blend the data 14 individual user by being able to count 15 15 between Biscotti and Gaia? the number of conversions associated with 16 16 a given campaign. A. No. 17 O. Why is it in this case 17 And so 18 Group IDs are allowed to, I 18 this way is specifically has a carve out 19 don't know if you'd use the word 19 set of permissions that are linked to the 20 leveraged or linked, or whatever you 20 fact that individual users are not being 21 21 would choose, you know, for this tracked, only aggregate level insights as 22 22 instance, why is it for the purposes of it relates to conversions are being 23 conversion of ads you're allowed to use 23 provided. 24 both Gaia and Biscotti? 24 O. Right. But a conversion is Page 200 Page 201 1 a one-to-one, right, it's the user -- the 1 off of both Gaia and Biscotti IDs; isn't 2 2 Gaia user specifically has somehow that correct? 3 converted on an ad, it, you know, where 3 A. In the -- if a 4 there was a Biscotti instead of a Gaia 4 graph -- if the 5 5 ID; isn't that correct? graph is used to be able to 6 6 A. The way that conversions are make the imprints in terms of a cross 7 surfaced and presented to advertisers, et 7 device conversion, then the answer is 8 8 cetera is in aggregate. So an advertiser yes. 9 9 will created a campaign that says, I'd Q. Okay. And you charged the 10 like to serve this 7-Up ad and here --10 advertiser a specific amount of dollars based on the number of conversions: isn't 11 here are the criteria for where I want 11 12 12 the ad to show up, et cetera, and then if that correct? 13 they want to actually see how many people 13 A. Advertising campaigns can be 14 14 set up based on a number of certain then buy that soda because they saw the 15 15 ad, what we provide back to the -- the criteria. It could be that if, let's 16 advertiser is not a list of IDs of users 16 say, a brand-related campaign, it's the 17 that converted, but just how many 17 number of impressions; that is, how many 18 conversions happened because of their 18 people saw the ad. Conversions is simply 19 19 one of the metrics that an advertiser can campaign. So --20 20 Q. Is that an exact count? But choose as the metrics associated with 21 that is an exact count that Google 21 what they pay. 22 22 provides, right, how many conversions? Q. Right. But for whether it 23 23 That is correct. be for conversions or number of impressions; in other words, whether it's 24 Q. And that conversion is based 24

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1	MR. BROOME: Are you done?	1	rights for what?				
2	Are you done, Mark?	2	MR. MAO: I'm reserving my				
3	MR. MAO: I am not done.	3	rights to ask additional questions				
4	I'm reserving my rights.	4	of a witness that's properly				
5	MR. BROOME: You're done,	5	prepared to testify to the topics,				
6	right? I mean, do you have let	6	including the topics which the				
7	me let me put it this way: Do	7	court had actually ordered.				
8	you have any more questions for	8	MR. BROOME: Okay. But you				
9	the witness to ask right now?	9	don't have any more questions for				
10	We're not bringing him back	10	Mr. Berntson?				
11	because you want to reserve time	11	MR. MAO: Disagree. I don't				
12	hypothetically.	12	know.				
13	MR. MAO: We are off the	13	MR. BROOME: You don't know				
14	clock, my clock. If you want to	14	if you have any more questions for				
15	go on your clock	15	him?				
16	MR. BROOME: Yeah, I do.	16	MR. MAO: Steve, stop				
17	I'm just asking are you done with	17	burning my time.				
18	your questioning? It's a pretty	18	MR. BROOME: Do you have any				
19	straightforward question. Are you	19	more questions for Mr. Berntson?				
20	done with your questioning of this	20	MR. MAO: I'm pausing my				
21	witness?	21	portion.				
22	MR. MAO: I'm reserving my	22	MR. BROOME: Okay. I'm				
23	rights.	23	going to take that as a no.				
24	MR. BROOME: Reserving your	24	Did can I can I ask my				
	Page 372		Page 373				
1	questions now? I'm going to take	1	private browsing mode, you start off with				
2	your silence, your non-response as	2	a completely empty cookie jar. A				
3	a yes.	3	Biscotti is created, and if you don't				
4		4	sign in to Google, there's no Gaia to map				
5	EXAMINATION	5	that new Biscotti to. The Biscotti that				
6		6	is present on the non-incognito browser				
7	BY MR. BROOME:	7	instance is not shared with the incognito				
8	Q. Mr. Berntson, do you recall	8	browser instance so there's no way of				
9	that Mr. Mao asked you some questions	9	creating that mapping from an incognito				
10	today about Google mapping Biscotti IDs	10	session.				
11	and and conversion	11	Q. Okay. And and conversely				
12	tracking?	12	would there be any mapping from Biscotti				
13	A. Yes.	13	to Gaia under those same conditions?				
14	Q. And I believe you testified	14	A. No. Again for similar				
15	that mapping in requires a	15	reasons, there is no Gaia to map that				
16	Gaia ID; is that is that right?	16	Biscotti to.				
17	A. That is correct.	17	Q. Mr. Mao asked also asked				
18	Q. For the dataflow that's at	18	you a number of questions about the				
19	issue in this case where users are on	19	X-Client-Data header.				
20	their browsers, they're signed out of	20	Do you recall that?				
21	their Google accounts, they're in private	21	A. Yes.				
22	browsing mode, would there be any mapping	22	Q. Do you understand that the				
23	from Gaia to Biscotti?	23	plaintiffs in this case have proposed				
24	A. No, because when you go into	24	that Google could use the absence of the				

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1	X-Client-Data header to identify users	1	where there are instances where the			
2	who are in incognito mode?	2	X-Client-Data header is empty and it's			
3	A. Yes.	3	not in incognito browsing, there there			
4	Q. And does Google use the	4	are quite a few different ways that that			
5	absence of the X-Client-Data header to	5	can happen. One is if it's a new browser			
6	identify users who are in incognito mode?	6	instance, no X-client header is present			
7	A. No.	7	in any call out from the browser.			
8	Q. And would that be a good way	8	The second is if you haven't			
9	to identify incognito users?	9	used your browser for or more,			
10	A. No.	10	the X-client header data is considered to			
11	Q. And why is that?	11	be stale and just purged and no			
12	A. Because there are cases that	12	X-Client-Data header is passed.			
13	will lead to false positives; that is,	13	Another case is if the			
14	where you see an empty X-Client-Data	14	variation IDs that are carried in the			
15	header and you assume it's incognito but	15	X-Client-Data header, if too many are			
16	not and false negatives where the reverse	16	returned to Chrome to prevent the			
17	is also true. There are processes that	17	requests coming from Chrome from being			
18	can result in empty client empty	18	too large, they just delete them all and			
19	X-Client-Data headers and to take an	19	so you'd see no X-Client-Data header.			
20	empty client X-Client-Data header and	20	Yet another permutation is			
21	populate values.	21	the presence of a firewall can also			
22	Q. Can you give us a couple of	22	prevent Chrome, the browser, from getting			
23	examples?	23	the variation IDs that are used to			
24	A. Sure. For the first case	24	populate the X-Client-Data header, and			
	Page 376		Page 377			
1	_					
1	this is because the variation IDs are	1	Q. And and did you did			
2	basically instructions as to what new	2	you indeed prepare to testify on all of			
3	features are enabled in the browser, and	3	those topics?			
4	so Chrome, after it starts out, will make	4	A. I did.			
5	an asynchronous call to retrieve these	5	Q. How much time do you think			
6	data from the server, and if that server	6	you spent preparing to testify on those			
7	endpoint is blocked by a firewall, no	7	topics?			
8	X-Client-Data header is provided, none of	8	A. At least 25 hours.			
9	the variation IDs. So that's another	9	Q. And did you conduct			
10	case where you can have an empty	10	interviews with relevant subject matter			
11	X-Client-Data header.	11	experts in order to educate yourself on			
12	Q. Thank you. That's very	12	the topics for which you've been			
13	helpful.	13	designated?			
14	Mr. Berntson, do do you	14	A. I did. I interviewed eight			
15	understand that you have been designated	15	different people.			
16	by Google to testify on topics, with the	16	Q. Okay. And and did you			
17	exception of Topic No. 5 to which Google	17	review documents in order to educate			
18	objected to producing a witness, Topics 1	18	yourself on the topics for which you've			
19	through 4 and 6 through 12? You	19	been designated?			
20	understand that you've been designated to	20	A. Yes, and those have been			
21	testify on those topics?	21	entered as Exhibits 12 and 13.			
22	A. Yes, I do.	22	Q. Okay. And that's that's			
23	Q. On behalf of Google?	23	a a binder of 61 documents by my			
24	A. Yes, I do.	24	count; is that right?			

				Page 394					Page 395
,	ERRATA SHEET			_					
2	Case: Calhou Deposition Date:	m, et al. v. Goog	gle LLC		cont	Pg. and Ln.	Now reads	Should read	Reason
3		David Monsees			1	158:4;	reaus	reau	
4					2	172:19, 22;			
5	Pg. and Ln.	Now reads	Should read	Reason	3	174:20, 23;			
6	27:21;				5	175:6; 176:3, 8, 9, 12, 18, 20,			
7 8	174:12, 17; 175:1;				6	23;			
9	173.1,				7	226:5;			
10	181:5;				8	228:5;			
11	244:4, 15, 19, 21;				10	245:1, 2, 4, 13; 254:21, 22;			
12	253:14;				11	255:3, 8, 13, 15;			
13	309:22	STKs	SDKs	transcription error	12	256:19;			
14	28:11, 15;				13 14	274:7, 8, 10, 13; 276:13;			
15 16	37:5: 38:8;				15	277:19;			transcription
17	88:6, 10, 15;				16	310;10	STK	SDK	error
18	97:19;				17	549, 11, 12, 14, 18, 19,			-
19	102:5;				18	23, 24;			
20	105:8;				19 20	55:6, 10, 17; 56:3, 7, 9; 58:3, 9;			
21 22	117:22, 23; 118:1, 4;				21	59:3, 5, 10; 61:4, 11,			
23	120:5, 14, 18;				22	12;			
24	131:7, 8;	STK	SDK	transcription error	23 24	62:2, 8, 11, 13, 16, 17, 22;			transcription error
				D 206	-		_	<u> </u>	
				Page 396	ı				Page 397
2000	Pg. and Ln. 63:2, 3, 8, 10;	Now reads	Should read	Reason					
1 2	65:24;								
3	66:2;								
4	68:24;								
5	69:2;								
6	71:13, 15;								
7	121.9, 10, 13; 126:5, 15;								
9	243:4, 7;								
10	2943, 4;					Signatu	re of Depo	nent	
11	298:20, 23;					7/07/0006			
12	299:2, 4, 5;					7/27/2021	.		
13 14	300:23;			transcription error			Date		
15	331:1, 3 88:6	A, the	The	transcription error					
16	107:10	00078278	00078378	transcription error					
17	109:12	up-to-date	out-of-date	misspoke					
18	157:19	If Biscotti	A Biscotti	transcription error					
19	166:11;								
20	202:23;	conversation							
21	203:3; 15	S	conversions	transcription error					
22	204:6	conversation	conversion	transcription error					
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